From the INTERNATIONAL SEARCHING AUTHORITY

PCT EDMUND P. PFLEGER GROSSMAN, TUCKER, PERREAULT & NOTIFICATION OF TRANSMITTAL OF PFLEGER, PLLC THE INTERNATIONAL SEARCH REPORT AND 55 SO. COMMERCIAL ST. THE WRITTEN OPINION OF THE INTERNATIONAL MANCHESTER, NH 03101 SEARCHING AUTHORITY, OR THE DECLARATION 7 no-105 (PCT Rule 44.1) Date of mailing (day/month/year) Applicant's or agent's file reference ^{cc} GROSSMAN, TUCKER, PERREAULT & PFLEGER, PLLC FOR FURTHER ACTION See paragraphs 1 and 4 below ART017PCT International application No. International filing date (day/month/year) 23 October 2007 (23.10.2007) PCT/US 07/82262 Applicant ARTHROSURFACE INCORPORATED The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): The time limit for filing such amendments is normally two months from the date of transmittal of the When? international search report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 1435 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19

Name and mailing address of the ISA/US	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Lee W. Young
P.O. Box 1450, Alexandria, Virginia 22313-1450	PCT Helpdesk: 571-272-4300
Facsimile No. 571-273-3201	PCT OSP: 571-272-7774

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's

Guide, Volume II, National Chapters and the WIPO Internet site.

months.

From the INTERNATIONAL SEARCHING AUTHORITY

To: EDMUND P. PFLEGER GROSSMAN, TUCKER, PERREAULT & PFLEGER, PLLC 55 SO. COMMERCIAL ST. MANCHESTER, NH 03101	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)
	Date of mailing (day/month/year) 09 OCT 2008
Applicant's or agent's file reference ART017PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US 07/82262	International filing date (day/month/year) 23 October 2007 (23.10.2007)
Applicant ARTHROSURFACE INCORPORATED	
Authority have been established and are transmitted he Filing of amendments and statement under Article of The applicant is entitled, if he so wishes, to amend the When? The time limit for filing such amendment international search report. Where? Directly to the International Bureau of WI 1211 Geneva 20, Switzerland, Facsimile of For more detailed instructions, see the notes on the International Article 17(2)(a) to that effect and the written opinion of the protest together with the decision thereon applicant's request to forward the texts of both no decision has been made yet on the protest; the protest against payment of (an) are supplicant of the protest together with the decision thereon applicant's request to forward the texts of both no decision has been made yet on the protest; the protest of the applicant wishes to avoid or application, or of the priority claim, must reach the International Bureau. If the applicant wishes to avoid or application, or of the technical preparations for international Bureau. The International Bureau will send international preliminary examination report has been or is to the public but not before the expiration of 30 months from the Within 19 months from the priority date, but only in respect examination must be filed if the applicant wishes to postpone date (in some Offices even later); otherwise, the applicant macts for entry into the national phase before those designated In respect of other designated Offices, the time limit of 30 months.	claims of the international application (see Rule 46): ents is normally two months from the date of transmittal of the PO, 34 chemin des Colombettes No.: +41 22 740 1435 e accompanying sheet. I search report will be established and that the declaration under of the International Searching Authority are transmitted herewith. Idditional fee(s) under Rule 40.2, the applicant is notified that: has been transmitted to the International Bureau together with the the protest and the decision thereon to the designated Offices. The applicant will be notified as soon as a decision is made. Postpone publication, a notice of withdrawal of the international bonal Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, national publication. The written opinion of the International Searching Authority to the la copy of such comments to all designated Offices unless an be be established. These comments would also be made available to the priority date. The soft of some designated Offices, a demand for international preliminary the entry into the national phase until 30 months from the priority str, within 20 months from the priority date, perform the prescribed Offices. months (or later) will apply even if no demand is filed within 19 e applicable time limits, Office by Office, see the PCT Applicant's

Name and mailing address of the ISA/US	Authorized officer:
Mail Stop PCT, Attn: ISA/US	Lee W. Young
Commissioner for Patents	
	PCT Helpdesk: 571-272-4300
Facsimile No. 571-273-3201	PCT OSP: 571-272-7774

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference ART017PCT	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No.	International filing date (day/mo	onth/year) (Earliest) Priority Date (day/month/year)
PCT/US 07/82262	23 October 2007 (23.10.2007)	23 October 2006 (23.10.2006)
Applicant ARTHROSURFACE INCORPORATED		
This international search report has be according to Article 18. A copy is bein	en prepared by this International g transmitted to the International	Searching Authority and is transmitted to the applicant Bureau.
This international search report consists It is also accompanied by a	s of a total of sheets. a copy of each prior art document	cited in this report.
1. Basis of the report		
a. With regard to the language, th		
	olication in the language in which	it was filed. which is the language of
a translation of the nation at the nation furnish	nternational application intoed for the purposes of internations	al search (Rules 12.3(a) and 23.1(b)).
b. This international search authorized by or notified t	report has been established takin o this Authority under Rule 91 (R	g into account the rectification of an obvious mistake ule 43.6 bis(a)).
		e disclosed in the international application, see Box No. I.
2. Certain claims were four	nd unsearchable (see Box No. II)	
3. Unity of invention is lack	king (see Box No. III).	
4. With regard to the title,		
the text is approved as sub		
the text has been establish	ed by this Authority to read as fol	lows:
5. With regard to the abstract,	to the decompliana	
the text is approved as sub		this Authority as it appears in Roy No. IV. The applicant
the text has been establish may, within one month from	ed, according to Rule 38.2(b), by om the date of mailing of this inter	this Authority as it appears in Box No. IV. The applicant national search report, submit comments to this Authority.
6. With regard to the drawings,		
a. the figure of the drawings to be	e published with the abstract is Fig	gure No. 7
as suggested by the		
	authority, because the applicant fa	
as selected by this A	Authority, because this figure bette	er characterizes the invention.
b. none of the figures is to be	e published with the abstract.	

Form PCT/ISA/210 (first sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US 07/82262

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61B 17/00 (2008.04) USPC - 606/80			
According to International Patent Classification (IPC) or to both n	ational classification and IPC		
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by IPC(8) - A61B 17/00 (2008.04) 606/80	classification symbols)		
Documentation searched other than minimum documentation to the ex 606/53, 79, 81, 167, 170, 176, 177, 178, 179, 180	tent that such documents are included in the	fields searched	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST(USPT,PGPB,EPAB,JPAB); Google Scholar; Search Terms Used: retrograde excision, cut, mill, bone, removable, pivot pin, ball joint, ball couple			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category* Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
X US 2006/0195112 A1 (EK) 31 August 2006 (31.08.20) [0057]-[0059], [0064] - [0068], [0115], [0116] and FIGS	06) Entire document, especially para 5. 5-9, 11.	1, 6-9 and 11-20	
Y		2-5 and 10	
Y US 2003/0171756 A1 (FALLIN et al.) 11 September 2 [0063], [0069], [0080] and FIG. 3.	US 2003/0171756 A1 (FALLIN et al.) 11 September 2003 (11.09.2003) para [0016], [0060], [0063], [0069], [0080] and FIG. 3.		
Further documents are listed in the continuation of Box C.			
Special categories of cited documents:	"T" later document published after the inter	national filing date or priority	
"A" document defining the general state of the art which is not considered to be of particular relevance	date and not in conflict with the appli- the principle or theory underlying the	invention	
"E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is	considered novel or cannot be considered to involve an inventive		
cited to establish the publication date of another citation or other special reason (as specified)	ocument which may find adouts on priority craims of which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention can considered to involve an inventive step when the document of particular relevance; the claimed invention can considered to involve an inventive step when the		
"O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than	being obvious to a person skilled in th	e art	
the priority date claimed Date of the actual completion of the international search	Date of mailing of the international sear		
05 October 2008 (05.10.2008)	09 OCT 2008		
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents	Authorized officer: Lee W. Young		
Mail stop PC I, Atth. ISA/OS, Commissioner for Faterits P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774		

From the INTERNATIONAL SEARCHING AUTHORITY PCT EDMUND P. PFLEGER GROSSMAN, TUCKER, PERREAULT & WRITTEN OPINION OF THE PFLEGER, PLLC 55 SO. COMMERCIAL ST. INTERNATIONAL SEARCHING AUTHORITY MANCHESTER, NH 03101 (PCT Rule 43bis.1) Date of mailing 09 OCT 2008 (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below ART017PCT Priority date (day/month/year) International filing date (day/month/year) International application No. 23 October 2006 (23.10.2006) 23 October 2007 (23.10.2007) PCT/US 07/82262 International Patent Classification (IPC) or both national classification and IPC IPC(8) - A61B 17/00 (2008.04) USPC - 606/80 Applicant ARTHROSURFACE INCORPORATED 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement Certain documents cited Box No. VI Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220.

Authorized officer: Name and mailing address of the ISA/US Date of completion of this opinion Mail Stop PCT, Attn: ISA/US Lee W. Young 05 October 2008 (05.10.2008) Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 PCT Helpdesk: 571-272-4300 Facsimile No. 571-273-3201 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (April 2007)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 07/82262

Box	No.	I Basis of this opinion
1.	Wit	h regard to the language, this opinion has been established on the basis of:
	X	the international application in the language in which it was filed.
		a translation of the international application into which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.		This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43 bis.1(a))
3.		h regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been ablished on the basis of:
	a,	type of material
		a sequence listing
		table(s) related to the sequence listing
		format of motorial
	b.	format of material
		on paper in electronic form
		III decidonic form
	c.	time of filing/furnishing
		contained in the international application as filed
		filed together with the international application in electronic form
		furnished subsequently to this Authority for the purposes of search
4.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5.	Ad	ditional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 07/82262

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			
Novelty (N)	Claims	2-5, 10, 19, 20	YES
Novely (IV)	Claims	1, 6-9 and 11-18	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	None	NO
and tiltable relative to said shaft (FIG. 8, and shaft (FIG. 8, and shaft (FIG. 8, and shaft (FIG. 8, and shaft rotatably and slidably recessed cutter (cutter 74, FIG. 7, para [0064]) c (para [0066]) and to be tiltable relative to	9). r excising a p heath 54, FIG livable in said onfigured to b said central s	l bore (shaft 72, FIGS. 6-7, para [0065]); se coupled to said central shaft to permit said cutter to rotate with sai shaft (FIG. 8, 9).	d central shal
access tunnel defined in a bone (FIG. 8, [0057], [0058]).	para [0057], [aim 6, wherein said stop sleeve is configured to be at least partially o [0064]), said stop sleeve being axially translatable within said access	s turiner (para
threadably engage bone defining an acc	ess tunnel (Fl		
stop sleeve (para [0065]).		aim 7, wherein said central shaft is configured to be axially translatal	
As per claim 11, Ek describes a system configured to travel along a distal end of	according to o said stop she	claim 6, wherein said cutter comprises a bearing surface (shelf 75, F eath (para [0068]).	IG. 11)

As per claim 12, Ek describes a method of excising a portion of an articular surface (para [0115]) comprising: providing an access tunnel extending through a bone to said articular surface (para [0057], [0058], [0115], FIG. 5); inserting a central shaft at least partially into said access tunnel (para [0057], [0058], [0115], [0116], FIG. 8); coupling a cutter to said central shaft (cutter 74, FIG. 7, para [0064]), said cutter tiltable relative to said central shaft (FIG. 8, 9); rotating said cutter (para [0066]); and applying a retrograde force to said cutter to urge said cutter into said articular surface (para [0067]).

applying a retrograde lorde to said cutter to dige said cutter who said distributes to the control of the cutter to dige said cutter who said distributes to the cutter to dige said cutter who said distributes to the cutter to dige said cutter who said cutters are control of the cutter to dige said cutter who said cutters are control of the cutters are cuttered to the cutter of the cutter of

As per claim 13, Ek describes a method according to claim 12, wherein rotating said cutter comprises applying a rotational force to said cutter through said central shaft (para [0067]).

As per claim 14, Ek describes a method according to claim 12, wherein applying a retrograde force comprises withdrawing said central shaft away from said articular surface (para [0067]).

As per claim 15, Ek describes a method according to claim 12, further comprising installing a stop sleeve at least partially into said access tunnel (para [0057]), said stop sleeve receiving at least a portion of said central shaft through said stop sleeve (para [0064]).

As per claim 16, Ek describes a method according to claim 15, wherein applying a retrograde force comprises withdrawing said stop sleeve and said central shaft away from said articular surface (para [0067], [0068]).

As per claim 17, Ek describes a method according to claim 16, wherein said stop sheath is threadably engaged in said access tunnel, and withdrawing said stop sleeve and said shaft comprises threadably translating said stop sleeve away from said articular surface (para [0058] - para [0059]; [0067] - [0068]; FIGS. 8-9).

As per claim 18, Ek describes a method according to claim 16, comprising positioning c, bearing surface of said cutter adjacent to a distal end of said stop sleeve and withdrawing said cutter and said stop sleeve away from said articular surface (para [0068]).

end of said stop sleeve and withdrawing said cutter and said stop sleeve away from said articular surface (para [0068]).	
Please See Continuation Sheet	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 07/82262

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V.2. Citations and explanations:

Claims 19 and 20 lack an inventive step under PCT Article 33(3) as being obvious over Ek.

As per claim 19, Ek describes a method according to claim 15, comprising providing a guide sleeve (para [0115]), but does not show the guide sleeve positioned at least partially through said stop sleeve, said central shaft extending at least partially though said guide sleeve. However, such a configuration would have been obvious to one of ordinary skill in the art as it would allow the stop sleeve to be properly positioned, and eliminate the need to remove the guide sleeve before excision by the central shaft occurred, reducing the complexity of the

As per claim 20, Ek describes a method according to claim 19, but does not show further positioning a distal end of said guide sleeve adjacent to said cutter, said guide sleeve directing an orientation of said cutter during rotation thereof. Such a configuration would have been obvious to one of ordinary skill in the art as it would allow predetermined definition of an excision orientation, eliminating the need for adjusting the cutter during the procedure and preventing possible errors in cutting.

Claims 2-5 and 10 lack an inventive step under PCT Article 33(3) as being obvious over Ek in view of US 2003/0171756 A1 to Fallin et al. (hereinafter: Fallin).

As per claim 2, Ek describes an apparatus according to claim 1, but fails to describe wherein said cutter is configured to be removably coupled to said shaft. However, Fallin describes a bone excision tool (para [0016]) which includes a cutter element (mill 300, FIG. 3) that is removable from the shaft (para [0063], [0069]). It would have been obvious to one skilled in the art to provide a removable cutter as described by Fallin on the device of Ek so as to be able to replace the cutter for alternate cutters of different sizes, or for replacing worn

As per claim 3, Ek describes an apparatus according to claim 1, wherein said cutter comprises a coupling (para [0071]), said cutter configured to be tiltable relative to said central shaft about said coupling (FIG. 8, 9), but fails to describe the coupling being a ball. However, Fallin describes a bone excision tool (para [0016]) which includes a ball coupling (para [0080]). It would have been obvious to one skilled in the art to provide a ball coupling as described by Fallin on the device of Ek so as to provide extra degrees of freedom for movement, so as to provide more complex cutting.

As per claim 4, Ek and Fallin describe an apparatus according to claim 3. Ek also teaches an apparatus wherein said shaft comprises an opening adjacent to an end of said shaft (FIG. 11), said opening sized to receive at least a portion of said cutter and said coupling (para [0068]) and Fallin describes a ball coupling (para [0080]).

As per claim 5, Ek describes an apparatus according to claim 1, but fails to describe wherein said cutter is configured to be coupled to said shaft via a pivot pin. However, Fallin describes a bone excision tool (para [0016]) which includes an element attached to the sleeve with a pivot pin (para [0060] - para [0061]). It would have been obvious to one skilled in the art to provide a pivot pin coupling as described by Fallin on the device of Ek so as to provide a simple, easily adjustable coupling between the cutter and shaft.

As per claim 10, Ek describes a system according to claim 6, wherein said cutter comprises a coupling (para [0071]), said cutter configured to be tiltable relative to said central shaft about said coupling (FIG. 9), but fails to describe the coupling being a ball. However, Fallin describes a bone excision tool (para [0016]) which includes a ball coupling (para [0080]). It would have been obvious to one skilled in the art to provide a ball coupling as described by Fallin on the device of Ek so as to provide extra degrees of freedom for movement, so as to provide more complex cutting.

Claims 1-20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46,4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.